

Storm Data and Unusual Weather Phenomena - March 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
WISCONSIN, Southeast				

(WI-Z046) MARQUETTE, (WI-Z047) GREEN LAKE, (WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN, (WI-Z056) SAUK, (WI-Z057) COLUMBIA, (WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z060) OZAUKEE, (WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE

03/09/11 00:00 CST	0	Winter Weather
03/09/11 14:00 CST	0	

Surface low pressure developed rapidly ahead of a strong short wave trough and moved south of Wisconsin from west central Illinois to just south of Chicago. A shield of precipitation spread over southern Wisconsin the night of March 8th with forcing from warm air advection ahead of the low, and continued through the morning of the 9th as the low crossed northern Illinois. The thermal structure associated with the storm was such that the rain/snow line bisected the Milwaukee/Sullivan County Warning Area. Locations along and northwest of a Fond Du Lac to Madison line saw snowfall accumulations of 3 to 5 inches, with isolated spots seeing more than 5 inches. To the east of this line, 2 to 4 inches of snow was common. The tier of counties right along the Illinois border only received 1 to 2 inches of snow, as most of the precipitation fell as rain.

DODGE COUNTY --- 1.0 SE WAUPUN [43.62, -88.72]

03/20/11 18:48 CST	0	Hail (1.00 in)
03/20/11 18:48 CST	0	Source: Trained Spotter

Large scale forcing for ascent was provided by a vigorous mid-level short wave trough that moved from the northern Plains across northern Wisconsin during the evening of March 20th. A strong southerly low-level flow over an approaching surface warm front produced elevated thunderstorms over southern Wisconsin.

DANE COUNTY --- 1.6 SSW MONONA [43.05, -89.34], 1.7 E BLOOMING GROVE [43.05, -89.34]

03/29/11 17:10 CST	0.50K	Dust Devil
03/29/11 17:11 CST	0	Source: Public

High pressure brought light gradient winds with good diurnal heating conditions producing steep low level lapse rates. A local temperature variation between land and nearby Lake Monona created a localized shear zone that led to the formation of a dust devil near Monona...southeast of the city of Madison. The dust devil developed over the Yahara River, traveled south, and came ashore where it picked up a plastic storage shed located near the Four Lake Yacht Club and blew off the roof of the shed.